

CLAIMS

1. A pile weatherstrip which forms a flexible seal projecting from a member when received in a holding slot extending longitudinally along the member, the slot having a throat which defines steps along opposite edges of the throat internally of the slot, a plurality of strands in side-by-side relationship, which said strands have resiliency to straighten thereby defining a flat pile of strands which extend longitudinally, said flat pile being disposed in said slot bent upwardly along an axis extending longitudinally of said slot and across said strands, and dividing said strands into separate parts tensioned to spring outwardly, portions of said parts being disposed internally of said slot engaging said steps to hold said bent pile in said slot, exterior portions of said parts extending outwardly of said slot to define said flexible pile seal.

2. The weatherstrip according to claim 1 wherein said exterior portions extend from said member over a distance defining a sealing range over which said exterior parts bend about said member away from each other when engaged by another member to form the seal between said members.

3. The weatherstrip according to claim 1 wherein said slot and said throat extend along an acute angle inwardly from a surface of said member at which said sealing action is provided by said bent strands which extend from said surface to provide said seal.

4. The weatherstrip according to claim 1 wherein said slot intersects a corner of said member and said parts of said pile are disposed on opposite sides of said corner to provide a seal along said corner.

5. The weatherstrip according to claim 1 wherein a flexible rib is disposed along said axis and assemble said strand into said flat pile.

6. The weatherstrip according to claim 5 wherein said rib is a bead, said bead and said strands being disposed in adhering relationship so as to assemble said strands into said flat pile.

7. The weatherstrip according to claim 1 wherein a fin of flexible material along the outside of said flat pile, where said pile bends about said axis, provides a locking fin which

engages said steps along edges of said fin to retain said bent pile in said slot.

8. The weatherstrip according to claim 7 wherein said locking fin is of material which is flexible but more rigid than said pile.

9. The weatherstrip according to claim 1 wherein a web of flexible material is disposed along said pile and is of sufficient width to extend outwardly of said slot with said parts of said bent strands which provide said seal to form an internal fin in said seal.

10. The weatherstrip according to claim ~~8~~ and 9 wherein said internal fin is less rigid than said locking fin.

11. The weatherstrip according to claim 10 wherein said internal fin has edges which extend at least to the upper ends of said pile.

12. The weatherstrip according to claim 10 wherein said fins and strands are of like material.

13. The weatherstrip according to claim 12 wherein said material is a polyolefin which is ultrasonically weldable.

14. The weatherstrip according to claim 10 further comprising a filament extending along said axis on the inside of said bend, said filament, internal fin and locking fin and strands being welded together to assemble said weatherstrip.

15. The weatherstrip according to claim 1 wherein said slot is a kerf and said throat has teeth defining edges which engage said pile.

16. The weatherstrip according to claim 1 wherein said slot is a kerf having grip edges, a locking fin attached to said pile on the outside thereof for engaging said edges when said pile is received in said kerf.

17. The weatherstripping according to claim 5 wherein said rib is a bead of diameter selected to provide separation of said parts of said pile when disposed in said slot.

18. The weatherstripping according to claim 6 wherein said bead is a monofilament of ultrasonically meltable and weldable material.

19. The weatherstrip according to claim 1 wherein a fin of flexible material more rigid than said strands and shorter than said flange but long enough to extend out of said slot when said flat pile is disposed in said slot is assembled centrally of said flat pile on the inside thereof

whereby to define the contour of said parts projecting from said slot.

20. The weatherstrip according to claim 7 further comprising a fin of flexible material more rigid than said strands and shorter than said flange but long enough to extend out of said slot when said flat pile is disposed in said slot is assembled centrally of said flat pile on the inside thereof whereby to define the contour of said parts projecting from said slot.

21. The weatherstrip according to claim 19 wherein said contour defining fin has a middle section from which arcuate side sections extend.